

**AMENDMENTS TO THE SPECIFICATION**

**Please amend the paragraph beginning on page 14, line 5 as follows:**

TiO<sub>2</sub> carrying Cr<sub>2</sub>O<sub>3</sub> and BaO was used as the combinedly used COS conversion catalyst that has both functions of O<sub>2</sub> removal catalyst and COS conversion catalyst. As the result, the COS concentration on the COS conversion catalyst outlet side was 15 ppm, and the COS conversion rate was 0.951.

Please amend the paragraph beginning on page 15, line 1 as follows:

Table 1 Results of experiment

	Item	Unit	Examp e 1	Examp e 2	Examp e 3	Compar ative examp e	Examp e 4		
Inlet gas condition	H <sub>2</sub>	Vol-	12.6						
	H <sub>2</sub> O	Vol-	3.1						
	CO	Vol-	28.4						
	CO <sub>2</sub>	Vol-	4.2						
	N <sub>2</sub>	—	Balance						
	H <sub>2</sub> S	Ppm-	567						
	COS	Ppm-	307						
	O <sub>2</sub>	Ppm-	145				240		
	Temperatu re	°C	300				200~4 00		
	Pressure	Mpa	2.29						
Catalyst condition	O <sub>2</sub> remo val cata lyst	Kin d	—	5.5wt% Cr2O3/ TiO <sub>2</sub>	10wt%N iO/TiO 2	5.5wt% Cr2O3/ TiO <sub>2</sub> 5.5wt% Cr <sub>2</sub> O <sub>3</sub> / BaO TiO <sub>2</sub>	None	5.5wt% Cr2O3/ TiO <sub>2</sub>	
		SV	1/h	11320		4528	—	30000	
	COS conv ersi on cata lyst	Kin d	—	4wt%BaO/TiO <sub>2</sub>		(O <sub>2</sub> removal catalyst was combined ly, used)	4wt%Ba O/TiO <sub>2</sub>	None	
		SV	1/h	7547			4528	—	
	Sum of cataly sts	SV	1/h	4528					30000
	Outlet gas component	H <sub>2</sub> S	ppm- v	862	860	859	764	—	
COS		ppm- v	12	14	15	110	—		

Performance	COS conversion rate*	—	0.961	0.954	0.951	0.642	—
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